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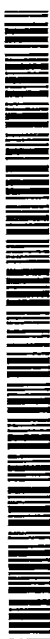


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WO 2004/034790 A1

(54) Title: A PROCESS FOR PRODUCING HERBICIDES FROM A FUNGUS **ALTERNARIA ALTERANATA** F.SP. LANTANAE

(57) Abstract: A process for producing herbicides from a fungus *Alternaria alteranata* f. sp. *lantanae* deposited as apure culture as ITCC-4896 which comprises in steps culturing the fungus in a liquid broth, subjecting the brith to the step of filtration to separate the broth containing phytotoxins from mycelium extraction the phytotoxins from said broth to obtain the phytotoxins, subjecting the phytotoxins to the step of chemical characterization.



A process for producing herbicides from a fungus *Alternaria alternata* f.sp. *lantanae*.

FIELD OF INVENTION

- 5 This invention relates to a process of preparing herbicide from a fungus *Alternaria alternata* f.sp. *lantanae* and herbicides prepared therefrom. Such a fungus has been deposited as a pure culture as ITCC-4896.

BACKGROUND OF INVENTION

- 10 It is generally known that fungus *Alternaria alternata* is present on a host plant. Depending on the species, such a fungus can cause a disease to the host plant, simultaneously, it is known that lantana weed causes damage to agricultural and forestry plants.

- As a result of the increasing environmental and health-related caused by the synthetic agrochemicals currently used, suitable and non-hazardous
15 innovative alternatives are being sought. The persistence and long-term toxicity of xenobiotics to non-target organisms, including humans, has generated concern, regarding their further use, and this has necessitated the re-evaluation of synthetic chemicals as a final solution to pest disease management (Stevens 1991). Recently, 2,4-dichlorophenoxyacetic acid has
20 been banned in certain countries because of deleterious effects on farmers (Szmedra 1997).

Weeds are very important crop pests. Herbicides for weed control are the leading type of pesticides in terms of both expenditure and volume used.



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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
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FILING RECEIPT



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 PITTSBURGH, PA 15219

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Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).**

Applicant(s)

Sanjai Saxena, Punjab, INDIA;

Power of Attorney: The patent practitioners associated with Customer Number **28289**.

Domestic Priority data as claimed by applicant

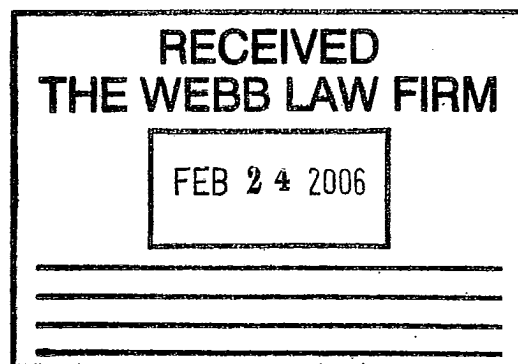
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Foreign Applications

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Title

Process for producing herbicides from a fungus alternaria alternata f.sp. lantanae

Preliminary Class

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
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TITLE OF INVENTION: PROCESS FOR PRODUCING HERBICIDES FROM A FUNGUS ALTERNARIA ALTERANATA F.SP. LANTANAE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
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EXAMINER	ART UNIT	CLASS-SUBCLASS
MARX, IRENE	1651	435-254100

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